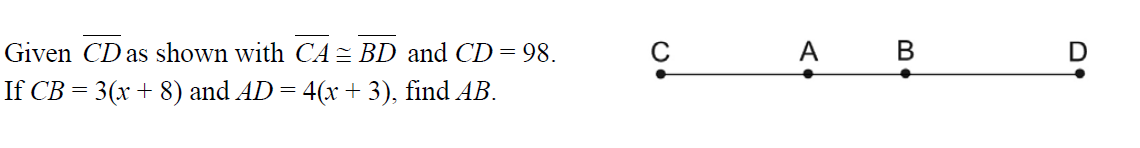
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Per.: \_\_\_\_\_\_\_\_

**Homework 2.5 – Preview of Segment Addition**

*The segment addition postulate states that given two points A and C, a third point B lies on the line segment AC if and only if the distances between the points satisfy the equation AB + BC = AC.*

1. Draw a diagram that represents the postulate above.
2. Given the problem below, which answer choice(s) represents a true statement?



1. CB + BD = AD
2. CB + AD – AB = 98
3. CB + AD = 98
4. CA = BD

3. Solve: 2x2 – 8x – 24 = 0. (HINT: If there is a common factor, factor it out first!)